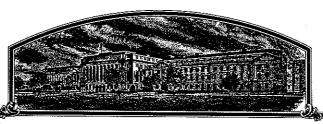
No.



8000092

THE UNITED STAYLES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Wilbur-Ellis Company

Wilhereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT (5) AND THE SUCCESSORS, HEIRS OF ASSIGNS OF THE SAID APPLICANT (5) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic reglenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to expect of the variety in a public repository as provided by LAW, the right to expect of the variety in a public, repository as provided by LAW, the right to expect of the variety in a public repository as provided by LAW, the right to expect of the variety, or offering it for sale, or reproducing it, porting it, or exporting it, or using ith producing a hybrid or different therefrom, to the extent provided by the Plant Variety Protection Act. Inited States seed of this variety (1) shall be sold by variety name only as a certified seed and (2) shall conform to the number of generations the owner of the rights. (24 stat. 1542, as amended, 7 u.s.c. 2321 et seq.)

BARLEY

'Poco'

In Testimony Winercot, I have hereunto set my hand and caused the seal of the Plant Bariety Protection Office to be affixed at the City of washington this 31st day of May in the year of our Lord one thousand nine hundred and eighty-five.

Secretary of Agriculture

Steel

Lennet Have Commissioner Plant Variety Protection Office

Agricultural Marketing Service

| | AGRICULTURAL MARI LIVESTOCK, POULTRY, GRA | FORM APPROVED OMB NO. 40-R3822 | | | |
|--------------------------------------|---|--|--|--|--|
| | PLICATION FOR PLANT VARIE | | | | int variety protection may impleted application form J.S.C. 553). |
| 1a. TEMPORARY DESIGNATION OF VARIETY | | 1b. VARIETY NAM | E | | AL USE ONLY |
| | | Poco | | 8000092 | |
| 2. | KIND NAME | 3. GENUS AND SPE | CIES NAME | FILING DATE | TIME A.M. |
| | Barley | Hordeum vul | gare | 4/18/80 FEE RECEIVED | 12:00 P.M. |
| 4. | FAMILY NAME (BOTANICAL) | 5. DATE OF DETE | RMINATION | \$ 250.00 | 4/18/80 4/16/85 |
| | Graminae | May, 1979 | | \$ | |
| 6, | NAME OF APPLICANT(S) | | et and No. or R.F.D. No., | City, State, and ZIP | 8. TELEPHONE AREA |
| | erson, Glayton & Go seed Processing Division | Code) P. O. Box | .2000 . | | 602-437-4347 |
| リエト | BUR-ELLIS COMPANY | Phoenix, A | Z 85062 | | 602-892-6000 |
| 19.1 | IF THE NAMED APPLICANT IS NOT A PI ORGANIZATION: (Corporation, partners) | ERSON, FORM OF hip, association, etc.) | DATE OF INCOR | ED, GIVE STATE AND PORATION | 11. DATE OF INCOR- |
| | Corporation | · · · · · · · · · · · · · · · · · · · | Delaware | | 1929 |
| 12. | NAME AND MAILING ADDRESS OF APP ALL PAPERS: Anderson | | | serve in this applic cessing Divisio | |
| ر کی | 91/24 P.O. BO | | C LORANGE | | |
| 7 | Phoenix, | AZ 85062 Y | JILBUR-ELLES | GLENDALE, AZ | 85011 |
| 13. | CHECK BOX BELOW FOR EACH ATTAC | HMENT SUBMITTED: | | | |
| | ∠ 13A. Exhibit A, Origin and Bre | eding History of the | Variety (See Section | 52 of the Plant Variet | y Protection Act.) |
| | 13B. Exhibit B, Novelty States | nent | | | |
| | | 10110. | | | |
| | x 13C. Exhibit C, Objective Desc | | y (Request form from | Plant Variety Protect | ion Office.) |
| | x 13C. Exhibit C, Objective Desc | ription of the Variet | | Plant Variety Protect | ion Office.) |
| | x 13C. Exhibit C, Objective Desc x 13D. Exhibit D, Additional Des | ription of the Variet | ety. | | A |
| 148. | x 13C. Exhibit C, Objective Desc | ription of the Variet scription of the Varie | ety. RIETY BE SOLD BY VA) XES X | RIETY NAME ONLY AS NO マンコン | S A CLASS OF CERTIFIED |
| | ■ 13C. Exhibit C, Objective Desc ■ 13D. Exhibit D, Additional Description DOES THE APPLICANT(S) SPECIFY THAT | ription of the Variet scription of the Variet T SEED OF THIS VAF ver 14B and 14C below. | ety. RIETY BE SOLD BY VA YES 14c. IF "YES," TO 14 | RIETY NAME ONLY AS | S A CLASS OF CERTIFIED |
| | X 13C. Exhibit C, Objective Desc X 13D. Exhibit D, Additional Description of the Applicant (s) Specify the SEED? (See Section 83(a). (If "Yes," answer DOES THE APPLICANT (S) SPECIFY THE LIMITED AS TO NUMBER OF GENERAT | ription of the Variet scription of the Variet T SEED OF THIS VAF ver 14B and 14C below. | ety. RIETY BE SOLD BY VA YES 14c. IF "YES," TO 14 | RIETY NAME ONLY AS NO マン シタ 1B, HOW MANY GENER | S A CLASS OF CERTIFIED |
| 14b. | ■ 13C. Exhibit C, Objective Desc ■ 13D. Exhibit D, Additional Description of the Applicant(s) Specify Than SEED? (See Section 83(a). (If "Yes," answer Does the Applicant(s) Specify Than LIMITED AS TO NUMBER OF GENERATED AS TO NUMBER OF GENERATED OF THE Applicant(s) File For Production of the Applicant of the Applic | ription of the Variet scription of the Variet T SEED OF THIS VAF VER 14B and 14C below. AT THIS VARIETY BE TIONS? | RIETY BE SOLD BY VA YES 14c. IF "YES," TO 14 TION BEYOND FOUNDATION RIETY IN OTHER COL | RIETY NAME ONLY AS NO S 2 2 BB, HOW MANY GENER BREEDER SEED? REGISTERED INTRIES? YES | S A CLASS OF CERTIFIED OF Y ATIONS OF PRODUCT OF Y |
| 14b. | ■ 13C. Exhibit C, Objective Desc ■ 13D. Exhibit D, Additional Description of the Applicant(s) Specify Than SEED? (See Section 83(a). (If "Yes," answer Does the Applicant(s) Specify Than LIMITED AS TO NUMBER OF GENERATED AS TO NUMBER OF GENERATED OF THE Applicant(s) File For Production of the Applicant of the Applic | ription of the Variet scription of the Variet ST SEED OF THIS VAF VER 14B and 14C below. AT THIS VARIETY BE TIONS? | RIETY BE SOLD BY VA | RIETY NAME ONLY AS NO マーニンタ BB, HOW MANY GENER BREEDER SEED? 図 REGISTERED | S A CLASS OF CERTIFIED A SY SATIONS OF PRODUCT A M SY CERTIFIED |
| 14b. 15a. | ■ 13C. Exhibit C, Objective Desc ■ 13D. Exhibit D, Additional Description of the Applicant(s) Specify that SEED? (See Section 83(a). (If "Yes," answer Does the Applicant(s) Specify that LIMITED AS TO NUMBER OF GENERATE NO 3/22 DID THE Applicant(s) FILE FOR PROpage of countries and dates.) | ription of the Variet scription of the Variet Scription of the Variet T SEED OF THIS VAF 14B and 14C below. AT THIS VARIETY BE TIONS? | RIETY BE SOLD BY VA YES 14c. IF "YES," TO 14 TION BEYOND FOUNDATION RIETY IN OTHER COL | RIETY NAME ONLY AS NO SUS 2/2 AB, HOW MANY GENER BREEDER SEED? MEGISTERED | S A CLASS OF CERTIFIED OF Y SATIONS OF PRODUC- OF Y CERTIFIED X NO (If "Yes," give |
| 14b. 15a. | ■ 13C. Exhibit C, Objective Desc ■ 13D. Exhibit D, Additional Description of the Applicant(s) Specify Than SEED? (See Section 83(a). (If "Yes," answer Does the Applicant(s) Specify Than LIMITED AS TO NUMBER OF GENERATED AS TO NUMBER OF GENERATED OF THE Applicant(s) File For Production of the Applicant of the Applic | ription of the Variet scription of the Variet Scription of the Variet T SEED OF THIS VAF 14B and 14C below. AT THIS VARIETY BE TIONS? | RIETY BE SOLD BY VA YES 14c. IF "YES," TO 14 TION BEYOND FOUNDATION RIETY IN OTHER COL | RIETY NAME ONLY AS NO SUS 2/2 AB, HOW MANY GENER BREEDER SEED? MEGISTERED | S A CLASS OF CERTIFIED OF Y ATIONS OF PRODUC- TO THE TO |
| 14b. 15a. | ■ 13C. Exhibit C, Objective Desc ■ 13D. Exhibit D, Additional Description of the Applicant(s) Specify that SEED? (See Section 83(a). (If "Yes," answer of the Applicant(s) Specify that LIMITED AS TO NUMBER OF GENERATED AS TO NUMBER OF GENERATED THE Applicant(s) FILE FOR PROpuls of countries and dates.) HAVE RIGHTS BEEN GRANTED THIS V | ription of the Variet scription of the Variet Scription of the Variet T SEED OF THIS VAF 14B and 14C below. AT THIS VARIETY BE TIONS? | RIETY BE SOLD BY VA YES 14c. IF "YES," TO 14 TION BEYOND FOUNDATION RIETY IN OTHER COL | RIETY NAME ONLY AS NO S 2 2 2 AB, HOW MANY GENER BREEDER SEED? REGISTERED INTRIES? YES NO (If "Yes," | S A CLASS OF CERTIFIED OF Y SATIONS OF PRODUC- OF Y CERTIFIED X NO (If "Yes," give |
| 14b. 15a. | ■ 13C. Exhibit C, Objective Desc ■ 13D. Exhibit D, Additional Description of the Applicant(s) Specify that SEED? (See Section 83(a). (If "Yes," answer of the Applicant(s) Specify that LIMITED AS TO NUMBER OF GENERATED AS TO NUMBER OF GENERATED THE Applicant(s) FILE FOR PROpuls of countries and dates.) HAVE RIGHTS BEEN GRANTED THIS V | ription of the Variet scription of the Variet Scription of the Variet T SEED OF THIS VAF 14B and 14C below. AT THIS VARIETY BE TIONS? | RIETY BE SOLD BY VA YES 14c. IF "YES," TO 14 TION BEYOND FOUNDATION RIETY IN OTHER COL | RIETY NAME ONLY AS NO S 2 2 2 AB, HOW MANY GENER BREEDER SEED? REGISTERED INTRIES? YES NO (If "Yes," | S A CLASS OF CERTIFIED OF Y SATIONS OF PRODUC- OF Y CERTIFIED X NO (If "Yes," give |
| 14b. 15a. | ■ 13C. Exhibit C, Objective Desc ■ 13D. Exhibit D, Additional Description of the Applicant(s) Specify that SEED? (See Section 83(a). (If "Yes," answer of the Applicant(s) Specify that LIMITED AS TO NUMBER OF GENERATED AS TO NUMBER OF GENERATED THE Applicant(s) FILE FOR PROpuls of countries and dates.) HAVE RIGHTS BEEN GRANTED THIS V | ription of the Variet scription of the Variet scription of the Variet T SEED OF THIS VAF VARIETY BE TIONS? RECTION OF THIS VARIETY ARIETY IN OTHER CO | RIETY BE SOLD BY VA YES 14c. IF "YES," TO 14 TION BEYOND FOUNDATION RIETY IN OTHER COU | RIETY NAME ONLY AS NO S 2 2 2 AB, HOW MANY GENER BREEDER SEED? REGISTERED INTRIES? YES X NO (If "Yes," | SACLASS OF CERTIFIED OF Y SATIONS OF PRODUC- CANAGE CERTIFIED NO (If "Yes," give give name of countries |
| 14b. 15a. 15b. | ■ 13C. Exhibit C, Objective Description In the second of | ription of the Variet scription of the Variet scription of the Variet T SEED OF THIS VAF 14B and 14C below. AT THIS VARIETY BE TONS? TECTION OF THIS VARIETY IN OTHER COMMENT OF THE PUBLICATION OF THE PUBLICATION OF THE SAME TO THE PUBLICATION OF THE PUBLICAT | RIETY BE SOLD BY VA YES 14c. IF "YES," TO 14 TION BEYOND FOUNDATION RIETY IN OTHER COU OUNTRIES? YES HIS/HER (THEIR) NAMed of this variety will | RIETY NAME ONLY AS NO 2 2 2 AB, HOW MANY GENER BREEDER SEED? REGISTERED INTRIES? YES X NO (If "Yes," ME(S) AND ADDRESS IN the furnished with the | SACLASS OF CERTIFIED OF Y SATIONS OF PRODUCT A THE OFFICIAL |
| 14b. 15a. 15b. | In the second | ription of the Variet scription of the Variet scription of the Variet of Scription of the Variet of Scription of THIS VARIETY BE TIONS? TECTION OF THIS VARIETY IN OTHER COMMENT OF THIS VARIETY IN OTHER COMMENT OF THE SCRIPTION OF THIS VARIETY IN OTHER COMMENT OF THE SCRIPTION OF THIS VARIETY IN OTHER COMMENT OF THE SCRIPTION O | RIETY BE SOLD BY VA YES YES 14c. IF "YES," TO 14 TION BEYOND FOUNDATION RIETY IN OTHER COL OUNTRIES? HIS/HER (THEIR) NAMed of this variety will ons as may be applicated as exually reproduced not be a solution. | RIETY NAME ONLY AS NO 2 2 2 AB, HOW MANY GENER BREEDER SEED? REGISTERED INTRIES? YES NO (If "Yes," ME(S) AND ADDRESS IN be furnished with the ble. ovel plant variety, and | SACLASS OF CERTIFIED ATIONS OF PRODUCT CATIONS OF PRODUCT ATIONS OF |
| 14b. 15a. 15b. | INDUST THE APPLICANT(S) AGREE TO THE APPLICANT(S) AGREE TO THE APPLICANT(S) FILE FOR PRO- DOES THE APPLICANT(S) FILE FOR PRO- name of countries and dates.) DOES THE APPLICANT(S) FILE FOR PRO- name of countries and dates.) HAVE RIGHTS BEEN GRANTED THIS V and dates.) DOES THE APPLICANT(S) AGREE TO THE APPLICANT (S) AGREE TO THE APPLICANT | ription of the Variet scription of the Variet scription of the Variet T SEED OF THIS VAF VET 14B and 14C below. AT THIS VARIETY BE TIONS? TECTION OF THIS VARIETY IN OTHER COMMENT OF THIS VARIETY IN OTHER COMMENT OF THE SECOND OF THIS SECOND OF | RIETY BE SOLD BY VA YES 14c. IF "YES," TO 14 TION BEYOND FOUNDATION RIETY IN OTHER COU OUNTRIES? YES HIS/HER (THEIR) NAMed of this variety will ons as may be applicated and the country of the co | RIETY NAME ONLY AS NO 2 2 2 AB, HOW MANY GENER BREEDER SEED? REGISTERED INTRIES? YES NO (If "Yes," ME(S) AND ADDRESS IN the furnished with the ble. Ovel plant variety, and to protection under the protection under the protection of the pro | SACLASS OF CERTIFIED ATIONS OF PRODUCT CERTIFIED NO (If "Yes," give The Official application and will be believe(s) that the te provisions of Section |
| 14b. 15a. 15b. | INCLUDED THE APPLICANT(S) SPECIFY THAT SEED? (See Section 83(a). (If "Yes," answer Does the Applicant(s) specify that Limited as to number of generated Market Mark | ription of the Variet scription of the Variet scription of the Variet T SEED OF THIS VAF VET 14B and 14C below. AT THIS VARIETY BE TIONS? TECTION OF THIS VARIETY IN OTHER COMMENT OF THIS VARIETY IN OTHER COMMENT OF THE SECOND OF THIS SECOND OF | RIETY BE SOLD BY VA YES YES 14c. IF "YES," TO 14 TION BEYOND FOUNDATION RIETY IN OTHER COU OUNTRIES? YES HIS/HER (THEIR) NAMed of this variety will ons as may be applicated as a second of the country of the c | RIETY NAME ONLY AS NO 2 2 2 AB, HOW MANY GENER BREEDER SEED? REGISTERED INTRIES? YES NO (If "Yes," ME(S) AND ADDRESS IN the furnished with the ble. Ovel plant variety, and to protection under the protection under the protection of the pro | SACLASS OF CERTIFIED ATIONS OF PRODUCT CERTIFIED NO (If "Yes," give THE OFFICIAL application and will be believe(s) that the ne provisions of Section penalties. ilseed Processing |

O861 8 1 84A

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

 (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

8000092

Origin and Breeding History

1. "Poco" originated as a selection from barley obtained from the International Maize and Wheat Improvement Center (CIMMYT), Mexico, in 1976. The parentage and pedigree, as designated by CIMMYT, was:

> Hja C4715 x OLLi-M64-9 CMB 73-373-2Y-2B-Y-OB PC 238 Y-75-76

- 2. Shortest, earliest plants were selected and bulked at Plainview, Texas in late 1976, Mesa, Arizona in early 1977 and Huntley, Montana in late 1977. In early 1978, large headed selections were made at Mesa, Arizona. "Poco" resulted from further screening-increase plantings at Mesa, Arizona in early 1979, Huntley, Montana in late 1979 and Chandler, Arizona in early 1980.
- 3. The genotype has been stable for the past three generations.

ADDENDUM TO EXHIBIT A

No variants occur during reproduction and multiplication of the variety. $% \left(\frac{1}{2}\right) =\left(\frac{1}{2}\right) ^{2}$

Section At a Property

Novelty Statement

"Poco" most closely resembles "California Mariout", except (1) it has purple awn tips, (2) it is 11 days earlier from seeding to 50% heading, and (3) it averages 66 cm. shorter in height.

Attachment I shows a comparison between "Poco" and "California Mariout" for some agronomic and yield data.

ATTACHMENT I TO REVISED EXHIBIT B

Comparison of Agronomic and Yield Data for "Poco" and "California Mariout" Barleys on Three Dates of Planting at Mesa, Arizona

| <u>Variety</u> | Date Planted | Date 50% Headed | Date of Maturity | Plant Height (cm) | Seed Yield _#'s/Acre | Test Weight #'s/Bu. |
|-----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------|-------------------------|------------------------|
| Poco | 11/7/78 12/28/78 2/8/79 | 3/1/79 3/14/79 4/8/79 | 4/23/79 5/10/79 5/15/79 | 49 51 51 | 4923 4578 4041 | 48.0 51.5 47.5 |
| California Mariout | 11/7/78 12/28/78 2/8/79 | 3/14/79 3/27/79 4/13/79 | 4/30/79 5/17/79 5/22/79 | 98 132 119 | 4669 4115 4024 | 49.0 49.5 47.5 |

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-5 (11-1-72)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION

EXHIBIT C (Barley)

HYATTSVILLE, MARYLAND 20782

INSTRUCTIONS: See Reverse.

OBJECTIVE DESCRIPTION OF VARIETY

BARLEY (HORDEUM VULGARE) FOR OFFICIAL USE ONLY Anderson, Clayton & Co., Oilseed Processing Division PVPO NUMBER 8000092 ADDPESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 2988 VARIETY NAME OR TEMPORARY Phoenix, AZ 85062 Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box tire. 0 8 9 or 0 9) when number is either 99 or less or 9 or less. 1. GROWTH HABIT: 1 * SPRING 2 * FACULTATIVE WINTER 3 = WINTER Early Growth: 1 = PROSTRATE 2 = SEMIPROSTRATE 3 = ERECT 2 MATURITY (50% Flowering): 1 = EARLY (California Mariout) 2 = MIDSEASON (Betzes) 1 3 = LATE (Frontier) |11|No, of days Earlier than t = BETZES 2 = CALIFORNIA MARIOUT 3 = CONQUEST 4 # DICKSON 5 = PIROLINE 7 = UNITAN 3, PLANT HEIGHT (From soil level to top of head): 1 = SEMIDWARF 2 = SHORT (California Mariout) 3 = MEDIUM TALL (Betzes) 4 = TALL (Conquest) Cm. Shorter than 2 = CALIFORNIA MARIOÚT 1 = BETZES 3 = CONQUEST4 = DICKSON 5 * PIROLINE 6 = PRIMUS 7 = UNITAN Cm. Taller than 4. STEM: 1 = 0 - 3 cm, 2 = 3 - 10 cm. Exertion (Flag to spike at maturity): 3 = 10 - 15 cm. 2 Anthocyanin: 1 = ABSENT 2 = PRESENT 0 4 NO. OF NODES (Originating from node above ground) 1 = CLOSED 2 = V-SHAPED 1 = STRAIGHT 2 = SNAKY 3 = OPENCollar Shape: 4 = MODIFIED CLOSED OR OPEN Shape of Neck: 3 = OTHER (Specify) 1 = DROOPING 1 Basal leaf sheath (seedling): 1 = GLABROUS 2 = PUBESCENT Position of flag leaf (at boot stage): 2 = UPRIGHT $W_{\text{inciness:}} = \frac{1 = ABSENT \{Glossy\}}{3 = WAXY}$ 2 = SLIGHTLY WAXY 0 MM. WIDTH (First leaf below flag leaf) 1 4 CM. LENGTH (First leaf below flag leaf) Anthocyanin in leaf sheath: 1 = ABSENT 6. HEAD: 1 = LAX 2 = ERECT (Not dense) 2 Type: 1 = TWO ROWED 2 = SIX-ROWED Density: 3 = ERECT (Dense) Shaper 1 = TAPERING 2 = STRAP 3 = CLAVATE 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY Waxiness: 4 = OTHER (Specify) 3 = WAXY 1 = NONE 2 = AT TIP 2 Lateral Kernels Overlap: Rachis (Hair on edge): 1 = LACKING 2 = FEW 3 = COVERED 3 = 1/4 - 1/2 OF HEAD 7. GLUME: 1 = 1/3 OF LEMMA 2 = 1/2 OF LEMMA 2 Length: Hairs: 1 = NONE 2 = SHORT3 = LONG 3 = MORE THAN 1/2 OF LEMMA 4 Hair covering: 1 = NONE 2 = RESTRICTED TO MIDDLE 3 = CONFINED TO BAND 4 = COMPLETELY COVERED Awns: 1 = LESS THAN EQUAL TO LENGTH OF GLUMES 2 = EQUAL TO LENGTH OF GLUMES

3 MORE THAN EQUAL TO LENGTH OF GLUMES

Awn Surface: 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH

| | 8. 1. | EMMA: | | | 8000092 |
|--------|------------|--|--|------------------------|--|
| | 5 | Awn: 1 = AWNLESS 3 = SHORT ON 6 5 = LONG (longer | 2 = AWNLETS ON CENTRAL RC CENTRAL ROWS, AWNLETS ON L or than spike) 6 = HOODED | | ROWS (less than equal to length of spike) |
| | 3 | Awn Surface: 0 = AWNLE | SS 1 = SMOOTH 2 = SEMISN | MOOTH 3 = ROUGH | |
| ٠. | 2 | Teeth: 1 = ABSEN3 2 | FEW 3 = NUMEROUS | 1 Hair: 1 = ABSENT | 2 = PRESENT |
| | 2 | Shape of base: 1 = DEPRES 3 = TRANS | SSION 2 = SLIGHT CREASE VERSE CREASE | Rachilla Hairs: 1 = S | SHORT 2 = LONG |
| | 9. S | TIGMA: | | | |
| | 2 | Hairs: 1 = FEW 2 = M. | ANY | | |
| | 10. | SEED: | | | |
| | 2 | Type: 1 = NAKED 2 | COVERED . | Hairs on Ventral Furro | w: 1 = ABSENT 2 = PRESENT |
| f | 2 | Length: 1 " SHORT (8.0 4 = MIDLONG T | mm.) 2 = SHORT TO MIDLONG O LONG (9.0 - 10.5 mm.) | | DNG (8.5 - 9.5 mm.) (10.0 mm.) |
| 42 | 2 | Wrinkling of hull: 1 = NA | KED 2 = SLIGHTLY WRINKLE | D 3 = SEMIWRINKLED | 4 = WRINKLED |
| | | Afeurone Color: 1 = COL | ORLESS (White or Yellow) - 2 = 8 | BLUE | |
| | 0 | PERCENT ABORTIVE | | 4 2 GMS. PER 1000 S | SEEDS |
| | 11. I | DISEASE: (0 = Not Tested, 1 = | Susceptible, 2 = Resistant) | | • |
| | 0 | SEPTORIA | 0 NET BLOTCH | O SPOT BLOTCH | 0 POWDERY MILDEW |
| | 0 | LOOSE SMUT | 0 BACTERIAL BLIGHT | 0 COVERED SMUT | 10 FALSE LOOSE SMUT |
| | 0 | STEM RUST | 0 LEAF RUST | 0 SCAB | 0 SCALD |
| | 0 | AY | 0 BSMV | 0 BYDV | OTHER (Specify) |
| | 12. 1 | NSECT: (0 = Not tested, 1 = 5 | Susceptible 2 = Resistant) | | |
| di. | 0 | GREEN BUG | 0 ENGLISH GRAIN APHID | 0 CHINCH BUG | 0 ARMYWORM |
| | 0 | GRASS HOPPERS | 0 CERIAL LEAF BETTLE | OTHER (Specify) | |
| : : | : . : . | . HESSIAN FLY RACES | 0 GP 0 A | <u>О</u> в <u>О</u> с | |
| | | · · ·) | 0 D E | 0 F 0 G | |
| | 13. C | HEMICAL (0 = Not Tested, 1 | = Susceptible, 2 = Resistant) | | |
| | | DDT | OTHER (Specify) | · | |
| | 14, II | NDICATE WHICH VARIETY I | MOST CLOSELY RESEMBLES THA | T SUBMITTED: | |
| | | CHARACTER | NAME OF VARIETY | CHARACTER - | NAME OF VARIETY |
| | | Plant tillering | Arivat | Seed size | Arivat |
| ٠., | | | Gu's | Coleoptile elongation | California Mariout |
| | | Leaf color | Harlan | Seedling pigmentation | Harlan |
| | | Leaf carriage | Gus | | |

REFERENCES: The following publications may be used as a reference aid for the standardization of character descriptions and

- 1. Wiebe, G. A., and D. A. Reid, 1961, Classification of Barley Varieties Grown in the United States and Canada in 1958, Technical Bulietin No. 1224, U.S. Dept. of Agriculture.
- 2. Reid, D. A., and G. A. Wiebe, 1968, Barley: Origin, Botany, Culture, Winter Hardiness, Genetics, Utilization, Pests, Agriculture, Fandbook No. 338, U.S. Dept. of Agriculture. pp. 61 84.
- 3. Malting Barley Improvement Association, Milwaukee, Wisconsin, 1971, Barley Variety Dictionary.

COLOR: Nickerson's or any recognized color fan may be used to determine color of the described variety.

8000092

Additional Description of Variety

"Poco" is more prone to plant color changes than all other varieties observed, especially lighter colors during cold weather and periods of high soil moisture.

The snakey appearance of the neck, as reported in $\mbox{Exhibit C}$, is weak.

ASSIGNMENT OF PLANT VARIETY PROTECTION RIGHTS

Anderson, Clayton & Co., a Delaware corporation, hereby agrees to have all rights associated with Plant Variety Protection Application, Number 8000092, "Poco", effective filing date April 18, 1980, transferred to Wilbur-Ellis Company. Said transfer of rights is effective October 5, 1983.

DATED January 30, 1984

ANDERSON, CLAYTON & CO.

q

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATE

For a valuable consideration, receipt of which is hereby acknowledged, the undersigned hereby grants, transfers and assigns to Germain's, Inc., a California corporation, all of its right, title and interest in and to Plant Variety Protection Certificate No. 8000092 for the variety of barley known as "Poco" and all of its right, title and interest in and to said variety.

Dated:

WILBUR/ELLIS COMPANY

BILL OF SALE

For a valuable consideration, receipt of which is hereby acknowledge, the undersigned does hereby grant, bargain, sell and convey to Germain's, Inc., a California corporation, all of its right, title and interest including, without limitation, all of its plant variety protection rights, trademarks, trade-names, logo and other trade rights, and marketing and development rights in and to the variety of barley seed known as Poco and all research and research notes with respect thereto.

The undersigned hereby covenants, represents and warrants that it is the lawful owner of all such property; that it has the rights to sell the same; that such property is free from any liens, charges, encumbrances or security interests therein or thereon and that it will warrant and defend the title thereto against the lawful claims and demands of all persons.

Dated: May 15 , 1987.

WILBUR-ELLIS COMPANY

of Dues

LAW OFFICES

Frisenda, Quinton & Nicholson

A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

425 PARK AVENUE

5TH FLOOR

NEW YORK, NEW YORK 10022

FAX; (212) 754-6262

TELEPHONE: (212) 223-1005

II755 WILSHIRE BOULEVARD IOTH FLOOR LOS ANGELES, CALIFORNIA 90025 FAX (310) 479-6978 TELEPHONE (310) 478-4540

February 3, 1997

Dr. Marsha A. Stanton Commissioner Plant Variety Protection Office NAL Building, Room 500 10301 Baltimore Boulevard Beltsville, MD 20705-2351

Re: Plant Variety Protection Certificates

Our File: 332-2

Dear Dr. Stanton:

RESIDENT PARTNER

Enclosed is an Assignment for Plant Variety Protection Certificates for recordation. Would you be so kind as to cross reference the assignment to the following Plant Variety Protection Certificates. The assignor is GERMAIN'S, INC. (a Delaware Corporation) 4782 East Jensen Avenue, Fresno, CA 93725 and the assignee is GERMAIN'S SEEDS, INC. (a Nevada Corporation) 2700 Sunset Road, Suite C-25, Las Vegas, NV 89120.

The Plant Variety Protection Certificates are listed as follows:

| NUMBERS | ISSUED | CROP & VARIETY |
|---|--|--|
| 8200103 8000092 7600079 9300098 9300099 | 9/23/82 5/31/85 12/20/76 6/30/95 6/30/95 | Wheat, Durum D-5003 Barley Wheat, Common W-444 Cotton, Germain's GC-210 Germain's Acala GC-610 |

Kindly return the recorded assignments to the undersigned. Enclosed is a check in the sum of \$125.00 (\$25.00 per certificate) to cover the recordation fee for the certificates.

Dr. Marsha A. Stanton February 3, 1997 Page 2

Please contact the undersigned if there is anything further that you may require.

Yours truly,

James A. Quinton

JAQ:sl Encls.

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES

WHEREAS, GERMAIN'S, INC., a Delaware corporation with its principal place of business at 4782 East Jensen Avenue, Fresno, California 93725 ("Assignor") is the owner of the Plant Variety Protection Certificates set forth in the annexed Schedule;

WHEREAS, GERMAIN'S SEEDS, INC., a Nevada corporation with its principal place of business at 2700 Sunset Road, Suite C-25, Las Vegas, Nevada 89120 ("Assignee") is acquiring said Plant Variety Protection Certificates pursuant to the Purchase Agreement dated October $\frac{30}{2}$, 1996 among Assignor and Assignee and certain other parties (the "Purchase Agreement");

NOW, THEREFORE, in consideration of the terms and conditions of the Purchase Agreement and other good and valuable consideration, receipt of which is hereby acknowledged, Assignor hereby assigns to Assignee all of Assignor's rights, title, and interest in and to the said Plant Variety Protection Certificates identified in the annexed Schedule.

Assignor further agrees that it will execute any other document or assignment reasonably required to perfect or record

ownership of the Plant Variety Protection Certificates.

Dated: November 16, 1996

GERMAIN'S, INC.

Seal

Name: Denis Mulhall

Title: Cheif Operating Officer

NOTARY PUBLIC

MICHELLE NOVA
NOTARY FUBLIC

MY COMMISSION EXPIRES FEB, 28, 2000

SCHEDULE

PLANT VARIETY PROTECTION CERTIFICATES

| NUMBER | ISSUED | CROP & VARIETY |
|---|---|--|
| 8200103 8000092 7600079 9300098 9300099 | 9/23/82 5/31/85 12/20/76 6/30/95 | Wheat, Durum D-5003 Barley Wheat, Common W-444 Cotton Germain's GC-210 |
| 2300033 | 6/30/95 | Germain's Acala GC-610 |